IP 99 Series

EIP220 Network Camera

Install Guide

EverFocus®

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This document shows you how to install IP99 camera step by step

1. **Read the product introduction and package content**
2. **Read the specification and diagram**
3. **See hardware overview**
4. **Do wiring and installation**
5. **Do network connection**

Product introduction

IP99 series IP products provides built-in, easy-to-use, and browser-based management software that can manage, view, record multiples IP99 cameras and video servers. No additional software required. It supports flexible layout of live/playback views, easy-to-use on-screen PTZ control, and instant zoom in/out. The true tri-plex gives users simultaneous live view, playback, and record experience. The auto-overwritten recording function allows IP99 IP camera can be used as a DVR-like recording, avoided disk writing overflow.

IP99 series camera

This product comprises a web-based user interface, user-friendly feature facilitates installation procedure. Moreover the open system structure saves the cost of coaxial cable demand while improving quality of the image. IP99 series is a flexible and effective solution for an interactive surveillance and remote surveillance system. It is easy to install and easy to use.

Product features

Easy to use — IP99 series is easy to use, the only thing you need to do is to assign a valid IP address. The only firmware required for this series is Microsoft IE 4.X or above.

Low cost — It provides a reliable and low cost video source. No need of expensive firmware, management station nor expensive video cable.

Open environment — Supports TCP/IP network, SMTP E-mail, HTTP and other related network protocols.

Easy management — Using standard web browser, you can assign and manage IP99 series directly through web page. It is even possible to upgrade firmware remotely.

Standard video format — IP99 series use MPEG 4 comclickion technology to produce

high quality images. User can view the images through any web browser.

Widely applicable — IP99 series provides live images on the network, it enhances functionality of traditional television system. IP99 series allows direct connection to visit remote video through standard IE, user can view local image as well as remote video any time any where. IP 99 series can be used for alarm surveillance, traffic surveillance, banking application, parking lot, factory surveillance, industry surveillance. Moreover, IP99 series supports SMTP e-mail which allows the system to send out event image as an attachment of the e-mail when an event occurs.

External connection — External devices include: IR sensor, switch, alarm relay or other device that can trigger IP99 series.

PTZ connection — You can adjust camera's direction by connecting a PTZ device to IP99 series through a RS485 interface.

Security — IP99 series includes a web server, meaning that it can process safety control as any other server. Web administrator can decide which individual, group, company or even the whole world to visit your IP camera. This protection can be done by setting user authority in IP99 series, or by connecting to a company's internet.

Package Content

Network Camera
Quick Start Guide
CD(Install Gudie, Manual, IP99 Searcher Tool)

Optional Accessories & Related Product

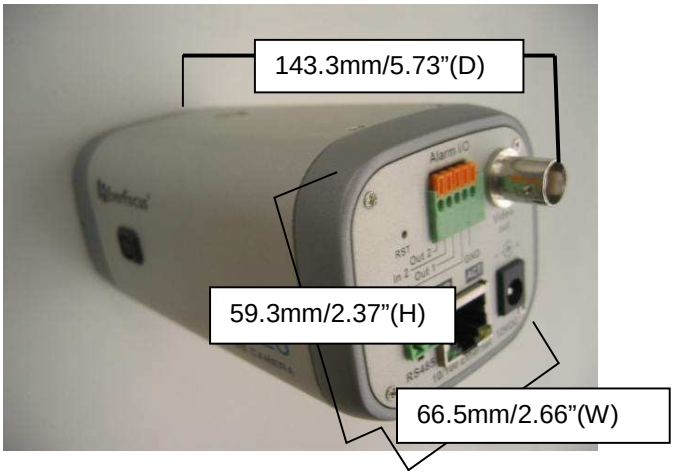
3.5~8 Lens
5~50 Lens
BA-01 Bracket
BA-03 Bracket
Testing Monitor EN220

SPECIFICATIONS

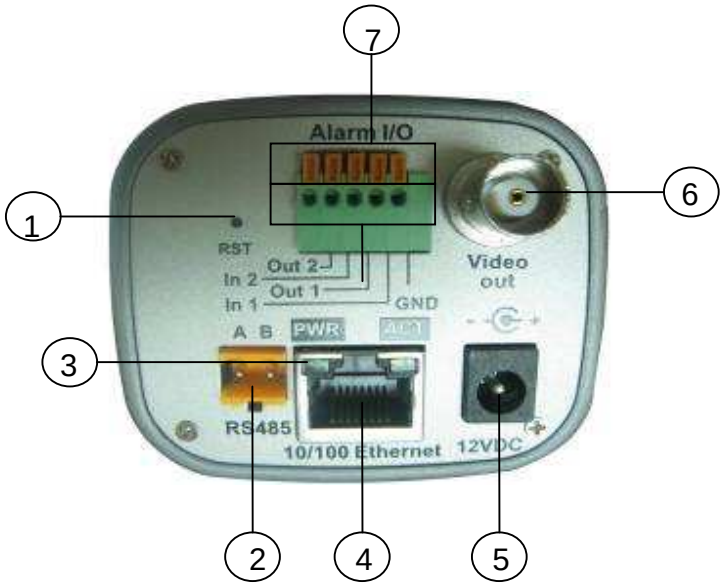
CAMERA	
Pickup Device	1/3" Sony Super HAD Interlaced CCD
Video Format	NTSC/PAL
Pixel Effective	NTSC: 510 (H) x 492 (V); PAL: 500 (H) x 582 (V)
Sensitivity	0.3 Lux / F=1.2
Day & Night	Yes
Lens	C/CS Mount
Video Output	BNC socket, composite 1 V p-p / 75Ω
Video Output Resolution	380 TVL
AUDIO	
Audio Input	One way audio
Audio Format	A-Low/u-Low
VIDEO	
Electronic Shutter	Auto/Manual
Backlight Comp.	On/Off
Mirror	On/Off
Auto Iris	Direct Drive Switch
AGC/Brightness/Contrast/Color	Adjustable
Video Comclickion	MPEG-4
Video Resolution	D1: 720x480 (NTSC) 720x576 (PAL) Half D1: 720x240 (NTSC) 720x288 (PAL) CIF: 352x240 (NTSC) 352x288 (PAL) QCIF: 176x120 (NTSC) 176x144 (PAL)
Frame Rate	Up to 30fps
NETWORK	
Interface	10Base-T/100Base-TX auto-negotiation, RJ-45 socket
Supported Protocols	HTTP, TCP / IP, UDP, FTP, NTP,SMTP, DHCP, DNS, DDNS, PPPOE
Network Security	3 Level Security Protection
Max. Client Limit	20 simultaneous clients
PTZ Device Control	RS485 (Pelco-P/Pelco-D)
RECORDING	
Manual Recording	Up to 30fps
Motion Detection Recording	Up to 30 sec. pre-event recording and 60 sec. post-event recording
Alarm Recording	Up to 30 sec. pre-event recording and 60 sec. post-event recording

MOTION DETECTION & ALARM	
Physical Alarm I/O	2 CH alarm input/2 CH alarm output
Notification	Record video to PC , Send email notification (jpeg file), FTP upload upon motion detection and alarm trigger
Manual Trigger Alarm Output	Yes, High or Low Button in Alarm Setting
PLAYBACK	
Playback Video Source	Local PC
Playback Speed	Forward x2, x4, x16, x32. Rewind x1, x2,x4,x16,x32
POWER	
Power Supply	12 VDC
Power Consumption	9W max
PHYSICAL	
Weight	340g/0.749lbs
Dimensions	66.5mm(W)x143.3mm(D)x59.3mm(H) ; 2.66”(W)x5.73”(D) x 2.37”(H)
ENVIRONMENTAL	
Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F
Humidity	20%~80%

Dimension Diagram



Hardware Overview



1. Reset: loading factory default configuration by pressing the button, which is inside this hole. Please insert the keen-edged device to the hole for 10 seconds.

2. RS485(Pelco-P/Pelco-D): RS 485 Connector functionally reserved for PTZ control.

3. Power LED: Power LED will light up when power is ON.

4. Ethernet RJ-45 port: Connect to LAN via this standard RJ-45 connector.

5. Power 12VDC: Connect with power adaptor

6. Video Out: Loopthrough connection to the video signal from the Video In connector. Terminated with a coaxial/BNC connector.

7. Alarm In/Out: Connect to Alarm In/Out device.

Installation

a. Mount camera bracket BA-01, BA-03 (optional) on the wall. And screw it on the wall firmly.
b. Mount Camera on the bracket
c. Connect a lens on the camera. Connect DC iris plug if using DC auto iris lens
d. Connect 12VDC power.
e. Connect BNC to testing monitor and adjust lens focus and zoom, view angle.
f. Connect CAT5 cable and do network connection. Refer to 3. Network Connection
g. Install IP searcher tool and assign IP address if you connect to multiple cameras. See Manual for detail of IP99 searcher tool

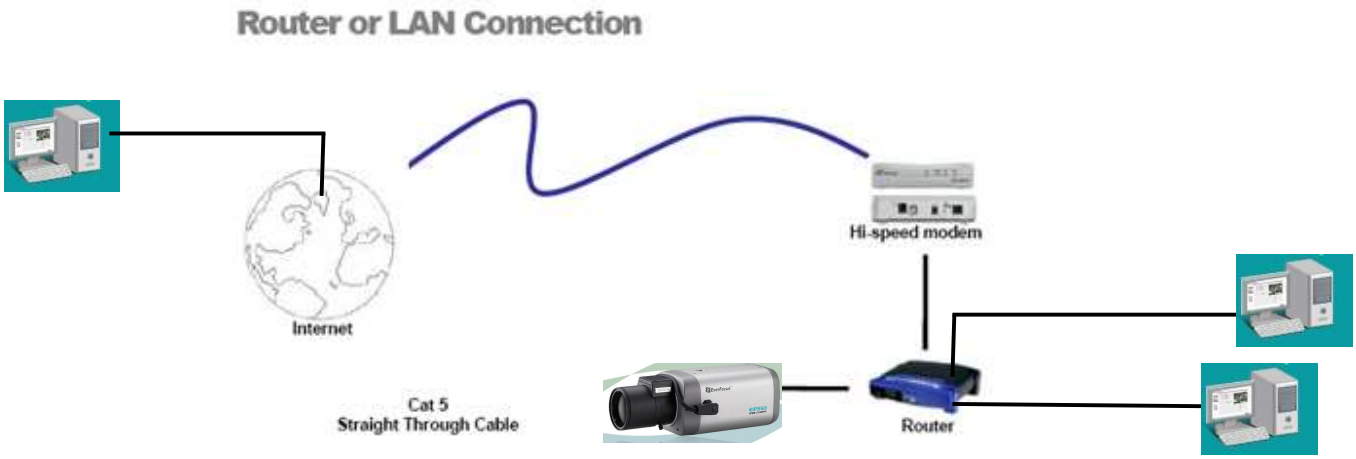
Network Connection

This section tell you how to do different types of network connections to IP99

1. Router or LAN connection

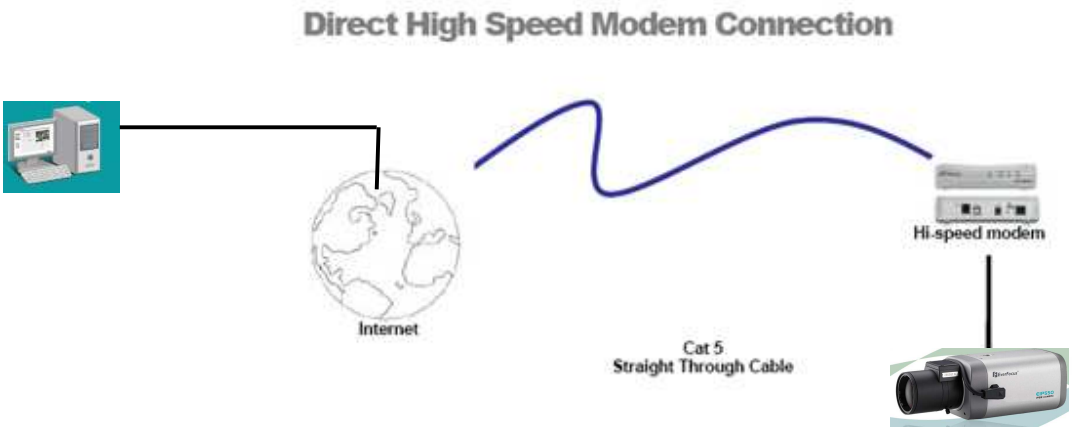
This is the most common connection that allows multiples PC to see IP99 cameras/ encoders in pre-existing LAN through a router.

By doing port forwarding, you can view camera outside of internal LAN on internet.



2. Direct High Speed Connection

Direct High Speed Connection connect camera directly to modem without a router. You need to assign the IP address you obtain from internet service provider to IP camera/ Encoder. To access the camera, just type http:// IP address of your internet provider. If you have a dynamic IP address, this connection doesn't work for you.



3. One to one connection from PC to IP camera

With a cross-over cable, you can connect directly without switching. However, only the PC connecting to camera can view the IP camera.